

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Fri, 30 Jun 1995 00:12:11 -0500
From: ws4s@multipro.com (Conard Murray)
Subject: 2-01c and 6-9 anyone?
Message-ID: <199506300512.AAA13342@server.multipro.com>

Hello all...I just found three or four 2-01C's and a bunch of #6-9 tubes in a box of stuff. They claim to fit a 410B VTVM. Does anyone need these out there or should I trash them?

Thanks de Conard WS4S

Conard Murray WS4S 615-526-4093
217 Dyer Avenue
Cookeville, TN 38501
ws4s@multipro.com ws4s@wa4uce.midtn.tn.usa

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Thu, 29 Jun 95 17:45:19 CDT
From: Michael.J.Knudsen@att.com
Subject: Re: 2nd R390A good n bad news
Message-ID: <9506292245.AA04064@bock.ih.att.com>

Good stuff by Mark, NE9G. First, I'd overlooked the fact that since the AGC and audio detectors are fed separately, one can indeed detune an IF to reduce the drive into the audio detectors, whether the original diode or an add-on product ckt. Easy enuf to try, and to undo later -- just tune in an AM BC local and monitor the DIode Load DC output.

About using the limiter on SSB/CW: The 6BE6 hack in my 1st R390A breaks the diode detector ckt and so nothing gets to the limiter system in the way of DC bias, so no it doesn't work. But I worked thru the original schematic and found a place further down the line where I could move the relay/switch that would leave the DC path intact.

Apparently whoever put the solly state PDet hack in my 2nd rx went to the trouble to get it right. Don't know if he crammed a relay under the IF chassis or used diode switching. Hard to vbelieve I haven't pulled out the IF chassis yet to look under, now that it's working.

I remember the Handbook "audio hang" AVC ckts, but never heard one working. Didn't someone just post about how you could screw a diode bridge directly to the Line AUdio outputs and feed the negative output into the Remote AGC? No kidding about all the wonderful things that are brought out to the rear of the R390A. Only needs an IF In and a Phono In (hi hi).

BTW, I found my dead 13 MC band problem. The original big xtal had died, so someone replaced it with a modern small one. Unforch he didn't have any of those xtal socket adapters (like you used to plug a VFO into

an xtal socket) to mount the little xtal, so he did a solder hack with some heavy gage wire. Amazing it lasted this long... I'll try to find a couple of thsoe adapters (another xtal is done the same way) and re-do it right. The new xtal works great if you jiggle the wires.

Also BTW this 2nd R390A and I discovered that CHU (Canada's WWV) has yet another "harmonic" transmission on 14,670. Rarely audible in CHicago.
--73, mike k w9nrd

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Fri, 30 Jun 95 03:47 PDT
From: jlb@earthlink.net
Subject: 75A4 PTO Alignment
Message-ID: <m0sRdbx-00141QC@moon.earthlink.net>

Is there anyone who can talk me through a PTO alignment for a 75A4? There are 2 problems that need to be corrected. One is that when I rotate the main tuning dial counterclockwise the bearing in the PTO squeaks. The second problem has to do with calibration. If I calibrate at 3.200Mhz and tune to 4.200Mhz I find that I have to recalibrate at 4.200Mhz because my dial is at 4.206Mhz. Also are there any books that describe how to overhaul the PTO and make all the internal adjustments? I am guessing that Art Collins probably had some sort of test jig for for the PTO and could test the unit before installing it on the main chassis. Does anyone know what the test jig may have looked like or what tests may have been performed?

Joe AA6WG

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Fri, 30 Jun 95 09:13:49 EDT
From: edd@VFL.Paramax.COM
Subject: A CW transmitter or XCVR
Message-ID: <9506301313.AA20668@gvlf4-a>

OK Folks,

Whilst we're on the subject of CW and rigs; I've been looking for a CW rig for my brother who wants to become active again in ham radio. (He's been out for 30 years or so).

His only interest is CW; we originally got our calls on the same day and use to use a TCS-12 rig, unfortunately, that disappeared in a recent move.

I don't have anything suitable for him (my ART-13 is out of the question); and I cannot scour the hamfests. So, does anyone have something on the shelf they'd like to sell that might be appropriate? A Transmitter or transciever will do as I have a NC-300 I can contribute for receiving.

Ed Doc
K3LPE

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: 29 Jun 95 14:44:28 CDT
From: "Terry O'Laughlin" <OLAUGHLIN@vilas.uwex.edu>
Subject: Re: Another BC-1031C owner!
Message-ID: <MAILQUEUE-101.950629144428.384@vilas.uwex.edu>

> Also, the Navy had a nearly identical version of the scope. I've got one, a
> basket case kept as spare parts for my much better 1031C. I'd LOVE to know what
> in the hell kinda receiver the Navy used it on tho; the 1031C has a maximum
> sweep width of 200 KC (WAY too wide!), but the Navy version's controls are
> marked for TWICE that width!

I wonder if it was used with that strange military surplus solid-state Super Pro that Fair advertised for years (R-1511 as I recall). I've got one at home and it has a very w-i-d-e 455kHz IF on the order of 200kHz. It has all kinds of circuitry that is clearly geared for spectral analysis and recording.

73s Terry O' WB9GVB

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 10:25:38 -0500
From: MICHAEL@ecs.umass.edu
Subject: Re: BA test equip wanted (tube stuff)
Message-ID: <01HS9WDBNG3MHTS51V@ECS.UMASS.EDU>

On Sun, 25 Jun 1995 stan ak0b wrote:

>I am looking for both 7 pin and 9 pin tube test adapters. These use
>to be in every TV service man's caddy. Not sure of the proper name but
>they plug-in the tube socket and then the tube plugs into them so you
>can get to each tube pin to test voltage, etc...

Stan,

These are called "test sockets" (not surprisingly). You can get a seven pin version from Fair Radio for \$3.00. It's listed on page 11

of the current catalog (WS-95) as U-104.

John Michael michael@ecs.umass.edu

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 10:42:59 -0400
From: John Shriver <jas@shiva.com>
Subject: Re: BA test equip wanted (tube stuff)
Message-ID: <199506291442.KAA24595@shiva-dev.shiva.com>

Pomona Electronics still has a few of their tube test sockets in their catalog. It was essentially their first product, a real anachronism in the current catalog! The TVS-7, -8, and -9 are still there, for 7 & 9 pin miniature and octal tubes. However, the miniature ones are around \$15 each, the octal ones are \$20.

That's damn pricey! On the other hand, they have nice big lugs that you can hang a scope probe on. The MIL-surplus ones (Fair radio) have flat plates with a tiny hole in the middle, no way I can hook a Tek P6006 scope probe on that.

Of course, I got my set of Pomona adapters quite affordably at ham fleas, also including the rare noval, magnoval, compactron, and 10-pin miniature!

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 95 12:35:45 CDT
From: bill@texan.frco.com (William Hawkins)
Subject: Copying CW
Message-ID: <9506291735.AA05611@texan.frco.com>

IMHO, postings about the art of copying CW are not off topic. I'm learning how to use a boatanchor, and it's practical stuff.

The business of listening to stuff that's too fast makes sense. But it implies the basic knowledge of how the dits and dahs equate to letters. Any thoughts on how to learn that, without falling into traps like first seeing the dots and dashes and then the letter?

Bill Hawkins bill@bvc.frco.com

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 13:57:43 -0400 (EDT)
From: "Richard A. Stalls" <rstalls@CapAccess.org>
Subject: Re: Copying CW

Message-ID: <Pine.3.07.9506291339.A2282-b1000000@cap1.capaccess.org>

On Thu, 29 Jun 1995, William Hawkins wrote:

> IMHO, postings about the art of copying CW are not off topic. I'm learning
> how to _use_ a boatanchor, and it's practical stuff.

Of course it's not! According to the newbies, the code is "obsolete", so it fits right in here. They think hollow-state is obsolete too. How dumb can they get??? (Is that a straight line or what??? <G>)

> The business of listening to stuff that's too fast makes sense. But it
> implies the basic knowledge of how the dits and dahs equate to letters.
> Any thoughts on how to learn that, without falling into traps like first
> seeing the dots and dashes and then the letter?

That's one of the arguments against the "slow-code" proposal. One can visualize the dit and dahs (dots and dashes) and do a mental lookup up to about 10 WPM. Above that speed, it's necessary to recognize the characters.

I meant to comment on somebody who was anticipating the incorrect next letter and missing copying, but I can't recall who. Unfortunately, the system had a crash last night and when I signed on this afternoon, I discovered that I had lost all the messages posted since yesterday morning. Anyway, whomever it was, I'll testify that I had the same problem. Between that and a bad case of nerves, I flunked my General code test the first two times I took it. I beat it by ignoring content and not copy anything but letters. To make sure I didn't read what I was writing, I took a 3x5 index card and covered each letter as I wrote it down. It worked! Solid copy. A year later (1958), I passed the Extra code test without missing a letter without the index card. The moral of the story is that you'll get over it.

73,
Tony
K4KY0

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 95 17:13:48 EDT
From: Andy Wallace <wallace@mc.com>
Subject: Copying CW -- building speed
Message-ID: <9506292113.AA08462@jupiter>

I have a Kantronics Field Day 2 (got a manual???) which I leave hooked to the solid state rig. It does a great job for copying CW, and even tells you the speed of the stream. I've found that

watching the display gives some sort of unconscious training -- I begin to recognize letters and words at faster speeds.

Whoever talked about copying CW in bed has a good point. I leave the bedside rig (Drake SW-8, formerly 2-B/2-BQ!) on a CW station as I am drifting off. Sometimes I get interested in the QSO, sometimes .. ZZZZZ. Perhaps being in a dark room helps. People who like to watch tubes glow can deal with that, right? :-)

But no matter what, a poor fist makes me spin the dial.

--Andy

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 13:35:56 -1000 (HST)
From: Jeffrey Herman <jeffrey@math.hawaii.edu>
Subject: Re: Copying CW -- building speed
Message-ID: <Pine.SUN.3.91.950629132316.10839A-1000000@kahuna>

> But no matter what, a poor fist makes me spin the dial.
> --Andy

Oh, there were so many times that I wish I was *able* to spin the dial, but working for the Coast Guard I didn't have the option! There were some awfully bad fists transiting the high seas, and if they called us we *had* to take their traffic. One fellow was so bad that each time he'd call I'd try to pass him off to either NMC or NMQ or NOJ (SRI OM UR QSA1 PSE CALL NMC even though he was 599). Of course shortly thereafter I'd hear NMO DE NMC QSY 512 only to get a scolding from the NMC op who had to take the bad fist I'd passed to him. Now that I think about it I guess I *was* spinning the dial, sort of...

Jeff NH6IL

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 10:14:23 -0400 (EDT)
From: rdkeys@unity.ncsu.edu
Subject: CW/Boatanchors/Fun-Last Nite
Message-ID: <199506291414.KAA08618@cc01du.unity.ncsu.edu>

Thanks all who joined in last night for a test run on 40 meters. Everyone's Boatanchor seemed to be doing just fine, all around. We were in the middle of a huge thunderstorm so I was using the indoor antenna. It worked, more or less. As usual, my pumphandle fist was as

crotchety as the ol' lady, so pardon that. I was hearing everyone 559-579 on the 5 foot indoor antenna with the regenerator (RAL-7). The ET-8109A did ok on the 15 foot indoor antenna, but was pushing a bit. I dropped down to 80 meters at 3525, after, and it was quieter than 40 (aside from the near-hit lightning crashes). Also, I was hearing much better up the east coast and off to Europe. If anyone is interested in trying 3527khz or another frequency of choice on 80 meters, tonight at 0100Z, let me know. I will park there from about 0001Z-0100Z, and make a few calls on each hour and half hour. 0100Z seems like a good all-around time.

73/Bob/NA4G

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Fri, 30 Jun 1995 13:26:44 -0400 (EDT)
From: rdkeys@unity.ncsu.edu
Subject: CWIST BA FUNZIES ROUNDTABLE TONIGHT
Message-ID: <199506301726.NAA15861@cc01du.unity.ncsu.edu>

Well, there has been interest in the running of a couple of more CWIST friendly Boatanchor roundtables....., so....., tonight I will be on with two rigs on two bands at not two, but four times! (reminds me of the fracas at NMN running multiple bands into one ops console....(:+}}....).

Anyway, for funzies tonight --- FRIDAY NIGHT --- YEAH!
(That translates to Saturday RADAY [radio day])
(The XYL is outta da house fer de night with her galfriends!)
(Boatanchors are on the menu tonight! YEAH!)

I will put the HW16 up on 40 and the Radiomarine Barnburner up on 80.

So....

Roundtable	Time	Frequency	Speed
*****	*****	*****	*****
No. 1	0001Z	7049 khz	Leisurely on the straight iron.
No. 2	0100Z	3527 khz	Leisurely on the straight iron.
No. 3.	0200Z	7049 khz	Tripping along on the bug.
No. 4.	0300Z	3527 khz	Tripping along on the bug.
No. 5.	0400Z	3702R5 khz	S L O fer the geriatric types on the straight pumping iron.

Notice the times and frequencies.

If I am not there, just start calling.

The generic call is: CWIST IMI yourcall K

Whoever is there first, guide the roundtable or just pass the baton around.

Call from about on the hour to maybe 5 minutes after. If no-one shows up, fine, if they show up, all the better.

So..... Batten down the hatches!

Run up the colors!

Fire up the rotary gaps!

Warm them thar ether bottles!

Spark up yer sparks!

.....an get yer bloody boatanchors a sparkin', arcin', whatever!

TU SU VA DE NA4G/Bob

p.s. I hope I am not Myrtle's fool, and at least a few o' de BA folks (dat includes the YL's amongst us) fires up them thar self-contained ether-bottles to the pleasant and warm fuzzy glowing temperature!

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995

Date: Thu, 29 Jun 95 10:00:57 EDT

From: edd@VFL.Paramax.COM

Subject: CWIST on 40

Message-ID: <9506291400.AA18592@gvlf4-a>

> To [CWIST]:

> Sorry I didn't ... the QRN was horrific and you started off

> weak and went down from there. ...

I was in there also; I was able to copy Bob and his Neighbor but thet were all I heard. For me, you started very weak and built in strength some. The QSB was quite severe.

I tried to jump in once or twice but got squashed like a bug. :-)

Maybe next time,

Ed Doc

K3LPE

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995

Date: Thu, 29 Jun 1995 10:17:03 -0400 (EDT)
From: johnmb <johnmb@nando.net>
Subject: Re: CWIST on 40
Message-ID: <Pine.SUN.3.91.950629101605.4048A-100000@parsifal.nando.net>

I heard several of you in there, but QRN was tremendous...
there was a LOT of thunderstorm activity in the area. Bob, you have
a fine "swing"....
/john

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Thu, 29 Jun 95 13:50:08 CDT
From: Michael.J.Knudsen@att.com
Subject: Re: CWIST on 40
Message-ID: <9506291850.AA03971@bock.ih.att.com>

Last nite I thought I'd listen in to the CWIST, but I was over
an hour late firing up the 2nd R390A on 7049, so didn't
hear anything like the CWIST.

But I did find W1AW in high-speed mode. Per someone's
recent posting, they now start out fast and work down in speed,
unlike when I got my tickets in 1960. Well, now I
know when and where they are, time to work on the code. --mike k

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Wed, 28 Jun 95 13:28:36 PDT
From: jproc@worldlinux.com
Subject: E.H. Scott Resource
Message-ID: <Chameleon.4.01.2.950628133858.jproc@>

Dear BA's,

As a result of ordering a manual for an E.H. Scott RCK receiver, I discovered
the technical expert for the E.H. Scott Radio Society. By permission, he
allowed me to release his name to the BA forum. His name and E-mail
address is:

Kent King

KAK@csi.compuserve.com

Kent only specializes in E.H. Scott radios and nothing else.

Regards,

Jerry Proc, VE3FAB
Radio Restoration Volunteer
HMCS Haida
E-mail: jproc@worldlinx.com
Toronto, Ontario

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: 29 Jun 95 14:46:37 CDT
From: "Terry O'Laughlin" <OLAUGHLIN@vilas.uwex.edu>
Subject: Re: Gaithersburg Hamfest date?
Message-ID: <MAILQUEUE-101.950629144637.480@vilas.uwex.edu>

> Does anyone know the exact date for the Gaithersburg Md. Hamfest?

How does a rookie Midwestern attendee find it? Any suggestions on accommodations and eateries? I really want to make this one.

73s Terry O' WB9GVB

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 16:06:08 -0500 (EST)
From: "James C. Owen, III" <owen@apollo.eeel.nist.gov>
Subject: Re: Gaithersburg Hamfest date?
Message-ID: <57970.owen@apollo.eeel.nist.gov>

In message Thu, 29 Jun 1995 14:51:19 -0500,
"Terry O'Laughlin" <OLAUGHLIN@vilas.uwex.edu> writes:

>
>> Does anyone know the exact date for the Gaithersburg Md. Hamfest?
>>
>

Sept 10, 1995

> How does a rookie Midwestern attendee find it? Any suggestions on
> accommodations and eateries? I really want to make this one.

>

I suggest the following Hotels

Gaithersburg Hilton 620 Perry Pkwy Gaithersburg, Md. 301-977-8900

This is the best since it's in easy walking distance to the fair grounds
only about 200 feet.

Holiday Inn 807 S.Frederick, Ave 301-948-1111 This one is about a quarter

mile away.

You can also use the 800 numbers to make res.

James C. Owen, III

National Institute of Standards & Technology (NIST)

Bldg 225/B360

Gaithersburg, MD 20899

1-301-975-5623

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995

Date: Fri, 30 Jun 95 08:57:00 EDT

From: "Cain, Jim, K1TN" <jcain@arrl.org>

Subject: Inventor W9CSX dies

Message-ID: <2FF3F521@arrl.org>

{{{Here's the entire W1AW bulletin on W9CSX,
as written by yours truly. -- K1TN}}}

Inventor W9CSX SK

Marvin Camras, W9CSX, who is credited with the invention of magnetic tape recording, died June 23, 1995, in Evanston, Illinois. He was 79 years old and lived in Glencoe, Illinois.

According to The New York Times, Camras worked and taught at the Illinois Institute of Technology for more than 50 years. As a student in the late 1930s, he built a magnetic wire recorder and later discovered that making recordings on magnetic tape made splicing easier. In 1944 he was awarded a patent on method and means of magnetic recording, the Times said.

Camras received the National Medal of Technology in 1990. He was awarded more than 500 patents for his work and they were licensed to more than 100 manufacturers.

The Times said that Camras exhibited an early aptitude for building electrical devices, including a flashlight at age four and a transmitter three years later.

Marvin Camras was first licensed as W9CSX in the late 1930s and held that call sign until his death. Among his survivors are his wife, Isabelle P. Camras, of Glencoe.

rom boatanchors@theporch.com Fri Jun 30 18:33:43 1995

Date: Fri, 30 Jun 1995 09:12:21 -0400 (EDT)

From: "Tony Stalls (K4KY0)" <j38@clark.net>

Subject: Re: Ultimate CW transmitter

Message-ID: <Pine.SOL.3.91.950630085816.5074B-100000@clark.net>

On Fri, 30 Jun 1995, rdkeys@unity.ncsu.edu wrote:

> I would consider the state of the art a pair of 813 finals running
> a pi-L network, driven by a 6146 driver, with 6AG7 or 6L6 buffers
> (maybe 4 of them) following a 6AG7 electron coupled hartley vfo.
> Add full QSK via several of the circuits floating around or a
> good high-speed relay (vacuum reeds do well at speed).
> This would be for a good HB rig designed about 1950 or so, as
> commonly found in the marine transmitters of the era.
> (The reed relays are semi-modern).

Drool... I viuslized it as you described. A agree that would be the
ultimate and if budget is a consideration, one could stop with the
6146(s) and still have a mighty fine transmitter.

Sounds like an ER article to me! It's high time that CW gets more
attention there.

> Actually, there is a very good 500 watt rig using a single 813,
> dating from about 1954 in the ARRL Handbook, that is quite good.
> Add a second 813, for good measure, and drive it with slightly
> more drive than usual, and it would work very well.

The oldest handbook I have is the 1964 and I didn't see it. As I looked
through that one, there were several CW transmitter projects I had
forgotten about.

> Oh, and is there anything else besides full QSK? (:+}}.....

That's such an easy question that it should be on the exam. :^)

73,

Tony
K4KY0

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995

Date: Thu, 29 Jun 1995 23:09:06 -0400 (EDT)

From: "Tony Stalls (K4KY0)" <ras@us.net>

Subject: Inventor W9CSX SK

Message-ID: <Pine.BSI.3.91.950629230547.2033H-100000@laurel.us.net>

I picked this up today and though I'd share the sad news of the passing of another industry pioneer.

Marvin Camras, W9CSX, who is credited with the invention of magnetic tape recording, died June 23, 1995, in Evanston, Illinois. He was 79 years old and lived in Glencoe, Illinois. He was first licensed as W9CSX in the late 1930s and held that call sign until his death.

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 10:14:24 -0600
From: thaake@bsm2ee1.attmail.com (thaake)
Subject: MANUALS
Message-ID: <PMX-TERM-2.02-bsm2ee1-thaake-307>

Gang,

Per a lead found here on Boatanchors I called Manuals Plus for documentation on my Sierra Voltmeter. They had the original manual and sent it to me priority mail. Let me tell you that I have never been treated this well by any other manual supplier.

Manuals Plus
P.O. Box 937
Spanaway, WA 98387-0937
Telephone 206-531-8031
FAX 206-536-1121

Tim WA0TSY
thaake@bsm2ee1.attmail.com

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: 28 Jun 95 21:33:02 -0600
From: rherndon@ima.infomail.com (Richard Herndon)
Subject: Meter Repair
Message-ID: <d60_9506300933@ima.infomail.com>

On 04 May 95, Art Moe illuminates:

AM> Anyone out there in BA land repair Meter movements, or know someone who
AM> could help.

D&D Instruments
641 Allen St
Austin TX
512-385-2558

>From my experiences of 20 years ago, be ready to chat for a long time if you call him. He's slowwwwwww, but good. He did wonderful repair for me on a Simpson 260. At the time I went to his shop, he was doing mostly telephone company audio meter work, but had neato wonderful old meters for repair, too.

Report back here if he works on BA meters now.

73 de K5FNI
--- GoldED 2.40

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Thu, 29 Jun 1995 23:19:28 -0400 (EDT)
From: Steve Ellington <n4lq@iglou.com>
Subject: RE NC-100 Speaker
Message-ID: <Pine.SOL.3.91.950629231907.14567A-1000000@iglou.iglou.com>

SOLD

Steve
n4lq@iglou.com

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Fri, 30 Jun 1995 08:46:15 +0200 (METDST)
From: MEC <danmec@inet.uni-c.dk>
Subject: Need 811A
Message-ID: <Pine.3.89.9506300821.A13016-0100000@inet.uni-c.dk>

I picked up a nice Collins 30L1 in Dayton last April, but it turned out that 3 of the 811A;s were no good.

Does somebody have some to spare ?

73 Rag OZ8R0

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Fri, 30 Jun 1995 11:12:07 -0400 (EDT)
From: rdkeys@unity.ncsu.edu
Subject: Need manual/schematic for radiomarine rx
Message-ID: <199506301512.LAA09872@cc01du.unity.ncsu.edu>

Dear Boatanchorites:

I have recently obtained an RCA Radiomarine Model CRM-R1A Radio Receiver. It appears to have been a 1960's manufacture rack-mount shipboard radio receiver using mini vacuum tubes like the 12BA6, 6BJ6, etc., in a series string to ships 115vac/dc. It covers the frequency range of 2-32 mhz, in four bands, and has 20 pushbutton crystal frequency positions as for presets to the standard marine calling/working frequencies. I would like to repair this unit and install it in my radio room for the landlubber's watch of the latest from WLO/WCC/WNU/VCS/etc. This should be a real funzies project. It also compliments the Radiomarine ET-8019A transmitter quite well, although the AR-8506B is the best fit (anyone seen one laying around lately?).

I am looking for, for the RCA Radiomarine CRM-R1A Radio Receiver:

1. A manual or a copy of one, or at least a schematic for the radio, so that I can repair/restore it to operating condition.
2. Any spare parts for the radio (particularly an FL-101) filter that is missing from inside. Also there is a somewhat odd 19X8 tube missing that I need to find a spare of. A replacement dial plate and replacement pushbutton frequency switch knob would also be nice to find. The filter may be the real gotcha. What in the world is a 19X8 tube? If it is a current limiting resistor, then I can just replace it with a dropping resistor, although it sounds like some strange TV tube RCA used to fill out the heater string.
3. Any first-hand knowledge from seagoing radio operators who may have used this particular equipment, especially as to how it was used, what associated equipment was used with it (it has selcal and fax positions, so it may have been used in NBDP/RTTY installations).
4. Any pointers to service shops in major ports or service personnel therefrom who may have any information or experiences or spare parts for this radio receiver. My guess is that there should still be a few such service shops in places like Mobile, Houston, Charleston, or such that might still remember or have firsthand knowledge of this unit (and maybe some spares or a manual).

Thanks again!

May we all have fair winds and following seas on our landlubber's watches!
Gee, ain't dem der Boatanchors fun!

BV OM BT

DE NA4G AR

``Boatanchor Bob'' / Robert D. Keys

rdkeys@unity.ncsu.edu

```
*****
* 73 TU SU VA DE NA4G          ``Boat Anchor Bob'', an ol' CW fart. *
*****
* Morse has been in the family for over 100 years. *
* Morse radiotelegraphy (Spark/CW) has been in the family since 1914. *
*****
* May you have fair winds and following seas on your watch at the key. *
*****
```

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995

Date: 29 Jun 95 19:17 GMT

From: FRANCIS4@AppleLink.Apple.COM (Francis, Dexter)

Subject: One more time....!

Message-ID: <804453459.4788373@AppleLink.Apple.COM>

I got a request for a BA song to the tune of Chantilly Lace, so;
(What can I say, my public calls...!)

- Flux in Your Face -

Flux in your face
and a funny taste
flammin' sparks
flying 'round
the smell and smoke
make you loose all hope
the thing will ever work.

Well...there's nothin in the world
makes you want to hurl
like a blown up coil
that was filled with oil
and a missing fuse
jumpered out of use
Yeah, that's a pain.
I wanna take someone's life!

<saxaphone rift here....>

What's that reading?
A dead short!
Pfffuttt...Pfffutttt....Pop
Oh, Baaaabeeeeee!
I'm NEVER gonna fix this thing!

Nuts...darn....
Whoa...That's HOT!
Oh, man....
I'm gonna take someone's life!

-df

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 15:35:56 -0400 (EDT)
From: Steve Ellington <n4lq@iglou.com>
Subject: Re: One more time....!
Message-ID: <Pine.SOL.3.91.950629153325.23438A-1000000@iglou.iglou.com>

On Thu, 29 Jun 1995 FRANCIS4@AppleLink.Apple.COM wrote:

> I got a request for a BA song to the tune of Chantilly Lace, so;
> (What can I say, my public calls...!)
>
>
> - Flux in Your Face -
>
> Flux in your face
> and a funny taste
> flammin' sparks
> flying 'round
> the smell and smoke
> make you loose all hope
> the thing will ever work.
>
> Well...there's nothin in the world
> makes you want to hurl
> like a blown up coil
> that was filled with oil
> and a missing fuse
> jumpered out of use
> Yeah, that's a pain.
> I wanna take someone's life!
>
> <saxaphone rift here....>
>
> What's that reading?
> A dead short!
> Pfffutttt...Pfffuttttt....Pop
> Oh, Baaaabeeeeee!
> I'm NEVER gonna fix this thing!
> Nuts...darn....
> Whoa...That's HOT!

> Oh, man....
> I'm gonna take someone's life!
>
> -df
>
> Saxophone riff. BAHaAAA Humbug. Try a riff of SSB feedback. Or Motor
boating I.F. stage of a HRO 50 with a bad screen bypass capacitor.
>
>
>
>
>
>

Steve
n4lq@iglou.com

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 12:50:31 -0700 (PDT)
From: paul Veltman <veltman@netcom.com>
Subject: Re: Receiving antenna Suggestions wanted ?
Message-ID: <Pine.3.89.9506291237.A9011-0100000@netcom7>

On Wed, 28 Jun 1995, Steven Wilson wrote:

> I am looking for receiving antenna suggestions. HF (2 - 30 mhz).
> Balanced feed, wire type. Most amateur antennas are good for
> a frequency or a narrow band of frequencies. I have seen very
> few (if any) articles on building up a nice receiving system. Verticals
> are to noisy and with them the AGC normally does not hv to work hi , I have
> used long wires but they seem to like static and are not balanced.
>
> Any SWL types out there who has a nice receiving antenna he would like
> to share ?
>
> de stan ak0b
>
>

Stan,
Why don't ya use the old horizontal loop. One wavelength at your lowest
frequency fed at a convenient point with ladder line. This design has
worked well for the last, oh, 70 years or so.

Paul WA6OKQ

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 16:26:32 -0400 (EDT)
From: Steve Ellington <n4lq@iglou.com>
Subject: Sale: Rare National NC100 Speaker
Message-ID: <Pine.SOL.3.91.950629162156.5008A-100000@iglou.iglou.com>

I've had this old speaker since 1964 when I was first licensed. It is from the late 30's and still looks good. This is an open back metal box. Sound absorbing material lining the inside, steel with copper plating on the outside, black wrinkle finish. Has 3 vertical bars on the front with the brass NC emblem in the center. Inside is a non original 8" speaker. This is not an HRO speaker. It came with a NC 100. No dents. It won't go cheap. This is a rare speaker. Make an offer over \$50.
73

Steve
n4lq@iglou.com

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Fri, 30 Jun 1995 00:13:32 -0400 (EDT)
From: Steve Ellington <n4lq@iglou.com>
Subject: SALE: VIKING 122 VFO
Message-ID: <Pine.SOL.3.91.950630001105.26097A-100000@iglou.iglou.com>

Works fine. Very ugly. Most of the lettering on the front panel is rubbed off. \$39
E-mail

Steve
n4lq@iglou.com

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 95 16:43 EDT
From: clarke@acme.ist.ucf.edu (Thomas Clarke)
Subject: SX28 FS Seen on r.a.e
Message-ID: <m0sRQR5-00003kC@next3.acme.ist.ucf.edu>

Please reply to allent@mnsinc.com (David Allen),

NOT ME!!!

My trusty old (second owner) swl/ham recvr. has not been fired up for over 15 years.

I may possibly have the owners manual/schematic.

Anyone interested?

I need the space.

It weighs a ton.

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 10:22:50 -0600
From: thaake@bsm2ee1.attmail.com (thaake)
Subject: TUBES
Message-ID: <PMX-TERM-2.02-bsm2ee1-thaake-308>

BA brethern,

I have a beautifully built (wish I could say I built it) RF deck ready to go with one exception. I need a pair of 250TH's.

Any leads on some of these bottles would be appreciated. I have lots of 813s and even a spare set of 4-400s with air sockets and chimneys but they aren't gonna look right on this deck.

Tim WA0TSY
thaake@bsm2ee1.attmail.com

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 15:28:14 -0500 (CDT)
From: KANAMAA%AMGATE%MATRXA@randb.pprd.abbott.com
Subject: Ultimate CW transmitter
Message-ID: <01HSA7BZPR0I9VWMYP@RANDB.PPRD.Abbott.Com>

>From: Kana, Michael X.
>Date: Thu, Jun 29, 1995 3:26 PM
>Subject: Ultimate CW transmitter
>To: bigboats
To all boatanchorites...

Just looking for your opinions on any rigs that would qualify as the ultimate CW transmitter. So, if I ever saw one at the next fest, I could use all my old football skills to plow through the crowd to be the first to plunk down the \$\$\$. I guess this would be open to both military surplus as well as commercial. The only thing that would be a problem is if it is some ultra rare battleship transmitter. Some

thing that is relatively common. Fine points would be a stable VFO (or Xtal), robust design, ease of use (no finicky setup), etc... You get the idea. Now, I know some folks are already to jump by pointing out a Drake or Collins but Im really looking for a rig whose sole purpose was CW.

As far as homebrewing goes, I remember a dedicated CW rig from the 70's era QST that was hybrid. I think it was called the T9 or somesuch. I guess homebrew suggestions would be good too.

Ok, let the games begin...

73's de AA9IL
Mike Kana

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Thu, 29 Jun 1995 20:07:56 -0400 (EDT)
From: rdkeys@unity.ncsu.edu
Subject: Re: Ultimate CW transmitter
Message-ID: <199506300007.UAA03470@ccc01du.unity.ncsu.edu>

>
> From: Kana, Michael X.
> Date: Thu, Jun 29, 1995 3:26 PM
> Subject: Ultimate CW transmitter
> To: bigboats
> To all boatanchorites...
>
> Just looking for your opinions on any rigs that would qualify as the
> ultimate CW transmitter. So, if I ever saw one at the next fest, I
> could use all my old football skills to plow through the crowd to be
> the first to plunk down the \$\$\$. I guess this would be open to both
> military surplus as well as commercial. The only thing that would
> be a problem is if it is some ultra rare battleship transmitter. Some
> thing that is relatively common. Fine points would be a stable VFO
> (or Xtal), robust design, ease of use (no finicky setup), etc... You
> get the idea. Now, I know some folks are already to jump by pointing
> out a Drake or Collins but Im really looking for a rig whose sole
> purpose was CW.

Drake or Collins is fine, but generally more tricky to set up than standard CW rigs.

> As far as homebrewing goes, I remember a dedicated CW rig from
> the 70's era QST that was hybrid. I think it was called the T9 or
> somesuch. I guess homebrew suggestions would be good too.
>

> Ok, let the games begin...

>

> 73's de AA9IL

> Mike Kana

.... and now back to the Extreme Games!!!!!!

It really depends upon what you want to do.

I would consider the state of the art a pair of 813 finals running a pi-L network, driven by a 6146 driver, with 6AG7 or 6L6 buffers (maybe 4 of them) following a 6AG7 electron coupled hartley vfo. Add full QSK via several of the circuits floating around or a good high-speed relay (vacuum reeds do well at speed). This would be for a good HB rig designed about 1950 or so, as commonly found in the marine transmitters of the era. (The reed relays are semi-modern).

If I had to pick a military rig, I would pick a TCK first, a TBK second, and a T-368/URT third. The AN/GRC-19 is a good set, but the adjustments are tricky as hell, and crotchety as the ol' XYL, requiring frequent retubing for best results. But, love them thar autotune servos a whirring and clanking..... 9:~}}.....

If I had to pick a commercial rig, I would pick a Collins or TMC or TEMCO rig of the late 40's or early 50's, but that is praying for hen's teeth to fall from the sky. A Gates or Wilcox Electric is also good, but scarce.

If I had to pick a ham commercial rig, I would probably pick something standard like a Collins S line or maybe a Valiant.

But, for me, the epitome is a full marine console by RMCA or ITT Mackay (again, like praying for hen's teeth to fall from heaven). Love to play on the mill and watch the silent periods come and go, whilst playing with the regennie on 600 meters, awaiting the boys on 80 CW.....(:~}}.....

Actually, there is a very good 500 watt rig using a single 813, dating from about 1954 in the ARRL Handbook, that is quite good. Add a second 813, for good measure, and drive it with slightly more drive than usual, and it would work very well.

Designwise, stick with 813's for longevity and reliability under fire. A good trick would be a t-368 exciter deck with the galldarned 6000 tube replaced by a 6L6 or 6159 (or whatever the 24 volt 6146 tube is) followed by a pair of 6146's driving a triplet of 813's at about 1500 volts. The thing should idle at a kw, and run forever.

Oh, and is there anything else besides full QSK? (:+}}.....

Good Luck

BV OM/SU TU 73 DE NA4G/Bob

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Thu, 29 Jun 1995 21:44:42 -0400 (EDT)
From: "Richard A. Stalls" <rstalls@CapAccess.org>
Subject: Re: Ultimate CW transmitter
Message-ID: <Pine.3.07.9506292138.A27576-b1000000@cap1.capaccess.org>

On Thu, 29 Jun 1995 KANAMAA%AMGATE%MATRXA@randb.pprd.abbott.com wrote:

> From: Kana, Michael X.
> Date: Thu, Jun 29, 1995 3:26 PM
> Subject: Ultimate CW transmitter
> To: bigboats
> To all boatanchorites...
>
> Just looking for your opinions on any rigs that would qualify as the
> ultimate CW transmitter. So, if I ever saw one at the next fest, I
> could use all my old football skills to plow through the crowd to be
> the first to plunk down the \$\$\$. I guess this would be open to both
> military surplus as well as commercial. The only thing that would
> be a problem is if it is some ultra rare battleship transmitter. Some
> thing that is relatively common. Fine points would be a stable VFO
> (or Xtal), robust design, ease of use (no finicky setup), etc... You
> get the idea. Now, I know some folks are already to jump by pointing
> out a Drake or Collins but Im really looking for a rig whose sole
> purpose was CW.

Flklorw back in my salad days was that the E.F. Johnson Viking Ranger was the best CW rig going. Johnson came out with the Navigator in about 1957 that was strictly CW and as I recall had some kind of specialized keying circuit. (Grid block? I don't think so.)

> As far as homebrewing goes, I remember a dedicated CW rig from
> the 70's era QST that was hybrid. I think it was called the T9 or
> somesuch. I guess homebrew suggestions would be good too.

That would be a very good project and in fact is on my list. Get hold of a pre-welfare ARRL handbook and it'll tell you all about keying in the chapter called, "Keying and Break-in".

73,
Tony
K4KY0

```
+-----+  
| Tony Stalls, K4KY0 * Arlington, VA |  
| PLEASE REPLY TO .... j38@clark.net |  
+-----+
```

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Thu, 29 Jun 95 22:06:02 PDT
From: jproc@worldlinx.com
Subject: RE: Ultimate CW transmitter
Message-ID: <Chameleon.4.01.2.950629222849.jproc@>

>Just looking for your opinions on any rigs that would qualify as the
>ultimate CW transmitter.

Mike,

I can certainly think of one transmitter that was designed for CW only, however, I can't quite say that it was the ultimate CW rig and you would never find it at your local hamfest. This rig was the Marconi PV500. About the size of a small fridge and weighing around 800 pounds, it just isn't portable but it gives new meaning to the 'BA' expression. Here is an excerpt from my research paper on Canadian naval radio systems which describes this rig:

"The Canadian Marconi PV500 HM was first built in 1943 and it was a high powered, CW only transmitter, capable of operating in the range between 3 to 19 Mcs. Power input was 500 watts over this frequency range. The HM2 variant of the PV500 operated up to 28 Mcs, however, power input was reduced to 300 watts above 19 Mcs. There were four, switch selectable, master oscillators that could be preset to the most often used frequencies. Alternately, four crystal controlled frequencies were also available.

PV500's were notorious for ground loop problems and one made sure that you kept one hand in your pocket while tuning them. Placing your hand on the cabinet to brace yourself against the ships roll could result in a really fine 'attention grabber' in the form of an AC buzz.

Many Radiomen tuned the PV500's by watching the power amplifier through the front panel window. When the plate was cherry red but not white, the final stage was considered to be tuned. As

an additional tuning aid, a small fluorescent bulb was taped to the antenna feed line and the final would be tuned for maximum brightness. On some PV500's, the front bottom left power supply cover panel can be found somewhat dented. This was normal and was caused by having to kick it there in order to ensure that the power supply interlock engaged.

Since there was no drive level control on the PV500 HM2, there was excessive drive at lower frequencies and insufficient drive at high frequencies. Multiplier stages had to be detuned to obtain the desired drive levels. To reduce chirp on CW, the multiplier stages were keyed while the oscillator was held on for the duration of a 'word'. This reduced chirp to the first letter of each word sent and permitted the use of break-in operation. Later, the HM3 variant fixed these and a few other problems which are not listed here."

Although Marconi delivered this rig with a few minor problems, it did serve as a workhorse transmitter in the Royal Canadian Navy for nearly a quarter century. On Haida, we have one PV500 HM2 on display and an spare unit.

Regards,

Jerry Proc VE3FAB
E-mail: jproc@worldlinx.com
Radio Restoration Volunteer
HMCS Haida Toronto, Ontario

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Thu, 29 Jun 1995 23:15:14 -0400 (EDT)
From: Steve Ellington <n4lq@iglou.com>
Subject: Re: Ultimate CW transmitter
Message-ID: <Pine.SOL.3.91.950629231149.10510D-100000@iglou.iglou.com>

On Thu, 29 Jun 1995 KANAMAA%AMGATE%MATRXA@randb.pprd.abbott.com wrote:

> From: Kana, Michael X.
> Date: Thu, Jun 29, 1995 3:26 PM
> Subject: Ultimate CW transmitter
> To: bigboats
> To all boatanchorites...
>
> Just looking for your opinions on any rigs that would qualify as the
> ultimate CW transmitter. So, if I ever saw one at the next fest, I
> could use all my old football skills to plow through the crowd to be
> the first to plunk down the \$\$\$. I guess this would be open to both
> military surplus as well as commercial. The only thing that would

> be a problem is if it is some ultra rare battleship transmitter. Some
> thing that is relatively common. Fine points would be a stable VFO
> (or Xtal), robust design, ease of use (no finicky setup), etc... You
> get the idea. Now, I know some folks are already to jump by pointing
> out a Drake or Collins but Im really looking for a rig whose sole
> purpose was CW.
>
> As far as homebrewing goes, I remember a dedicated CW rig from
> the 70's era QST that was hybrid. I think it was called the T9 or
> somesuch. I guess homebrew suggestions would be good too.
>
> Ok, let the games begin...
>
> 73's de AA9IL
> Mike Kana
>
> Ahhh. cw only transmitters. Well, to qualify, they need to have a built
in vfo. Now Johnson made a nice little bably called the Navigator. That's
one of my favorites. Here was a tx with breakin keying, vfo and no mic. jack.
6146 final i belive. Then there was the Lyso of early 50's fame. 807
final, big half moon dial that cover most of the front panel etc. Nice
black box.
Name some more.

Steve
n4lq@iglou.com

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Fri, 30 Jun 95 07:49:25 PDT
From: Grant Youngman <gyoungma@gtetel.com>
Subject: Re: Ultimate CW transmitter
Message-ID: <Chameleon.4.00.4.950630075114.grant@nq5t.gtetel.com>

>
>Flklorw back in my salad days was that the E.F. Johnson Viking Ranger was
>the best CW rig going. Johnson came out with the Navigator in about 1957
>that was strictly CW and as I recall had some kind of specialized keying
>circuit. (Grid block? I don't think so.)
>

I think they called it timed-sequenced break-in. I have been looking around
for one of these but haven't come across one. I ran a buddy's once back in
the very dark ages and remember it being a really nice little box.

Grant/NQ5T

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Fri, 30 Jun 1995 07:23:32 -0600
From: Bill Standerfer <bills@hpsilwes.lvld.hp.com>
Subject: Re: Ultimate CW transmitter
Message-ID: <199506301323.AA237908617@hp.com>

NA4G/Bob wrote:

>> As far as homebrewing goes, I remember a dedicated CW rig from
>> the 70's era QST that was hybrid. I think it was called the T9 or
>> somesuch. I guess homebrew suggestions would be good too.
>>
>> 73's de AA9IL

Ah, Mike, one 73 is quite enough, thanks. ;-)

>> Mike Kana

>

>Actually, there is a very good 500 watt rig using a single 813,
>dating from about 1954 in the ARRL Handbook, that is quite good.

This rig was quite nice and I had the good fortune to have a copy handed down to me in my early ham days in the mid 60's. If you've got the sheet metal and parts scrounging skills, I'd recommend the it.

The one I had used a 100 pound power supply with 866s as HV rectifiers. When you keyed the transmitter, the tubes glowed brightly, so it was a real kick to turn the room lights off and work CW by light of the blue glow and the HQ-110 dial.

Bill

Bill Standerfer	*	Hewlett-Packard Company
CFI-A, IA, ME	*	Measurement Systems Division
bills@lvld.hp.com	*	Loveland, CO 80539
Baron N222AB - KF0DJ - Pikes Peak 253	*	970-679-2378

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Fri, 30 Jun 95 12:29:18 EDT
From: junger@mtn.er.usgs.gov (John Unger)
Subject: RE: Ultimate CW transmitter
Message-ID: <9506301629.AA06423@mtn.er.usgs.gov.er.usgs.gov>

Mike - I hate to say it in the boatanchor forum, but probably the best CW rig (IMHO, of course ;-)) would be one of the TenTec CW transceivers, e.g., Century 22. Unfortunately, it is not a hollow state rig...

Maybe a better way of looking at the problem would be to make a list of features that an "ultimate" CW rig would have.

Jumping right in, I'll start with some obvious things:

1. Excellent selectivity - at least 200Hz with sharp skirts
2. _Real_ QSK - not "semi" or "break-in", but QSK where you can hear everything between the dots at 30 WPM.
3. Crisp, clear on-the-air signal that holds up at the higher sending speeds.
4. Smooth tuning for zeroing in on weak signals with that narrow filter in operation.
5. Maybe a BFO...
6. --- your favorite features here!!! ---

73 es GL - John, W3GOI

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 12:55:41 -0400 (EDT)
From: pbock@melpar.esys.com (Paul H. Bock)
Subject: Vibroplex Bug Info Chart
Message-ID: <9506291655.AA08409@syseng1.se.melpar.esys.com>

VIBROPLEX MODEL & FINISH CHART, 1930-1980

Compiled by Paul H. Bock, Jr. K4MSG

DISCLAIMER: The author makes no claim that this chart is either 100% accurate or complete - but I do claim that all the mistakes are exclusively mine.

Base/Finish	Period	O	J	#6/LB	C	Z	BR	P
Japanned/Ni	<1940	y	y	#6	n	n	y	n
Ni/Ni Deluxe	<1940	y	n	#6	n	n	y	n
Black/Ni	Late '30s	?	?	#110059	n	n	?	n

Black/Cr	1940-58	y	y	LB	y	y	y	n
Dark Gray/Cr	1943-45	y	n	LB	n	n	y	n
(WWII Deluxe) only								
Gray/Cr	1958>	y	n	LB	#204484	y	y	n
Beige/Cr	***	?	n	LB?	?	n	n	n
Cr/Cr Deluxe	1940>	y	n	LB?	n	n	y	n
Cr-Au/Cr	1948>	n	n	n	n	n	n	#229273

*** Probably late 1970s only

- NOTES: (1) Original standard size is 3-1/2" wide by 6-3/8" long
- (2) Junior: 1/2" narrower & 1/4" shorter than Original
- (3) Blue Racer: 1" narrower & (?) " shorter than Original
- (4) Zephyr: 1/2" narrower than a Champion, plus includes a shorting switch (NOTE: The Champion is the only model known that *does not* have a shorting switch)
- (5) Serial # 110059 is a Black/Ni Lightning Bug, late 1930s, with pin-striping and lightning bolts inside corners on a *black wrinkle* base
- (6) Serial # 204484 is a Gray/Cr Champion (1958 or later)
- (7) Serial # 229273 is a 1963 Presentation

LEGEND: y - yes, or existence has been verified
n - no, or existence not known
? - may have existed, but not verified
#6 - existed as No. 6 only
LB - existed as Lightning Bug only
#_____ - serial number of example owned by author

The models represented are as follows:

0 Original
J Junior
#6/LB No. 6, later called the Lightning Bug

C Champion
Z Zephyr
BR Blue Racer (also called the No. 4)
P Presentation (first called the Super Deluxe)

The base paints and parts finishes represented are as follows:

japanned - a black enamel base paint used until the late
 1930s
black - black wrinkle base paint, used after the late
 1930s
dark gray - a dark gray base paint used exclusively on Deluxe
 instruments during WWII to conserve chrome
gray - gray wrinkle base paint used after 1958
beige - beige base paint used in the late '70s
Ni - Nickel-plated metal parts (also base on Deluxe)
Cr - Chrome-plated metal parts (also base on Deluxe)
Au - Gold-plated base top (Presentation only)

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 95 09:20:35 EST
From: "R. Dennis Gibbs" <dgibbs@Rational.COM>
Subject: Wanted: IERC Black Tube shields
Message-ID: <Chameleon.4.01.950629092206.dgibbs@meninx.ppp.verdix.com>

Greetings everyone,

Does anyone have any of the Black IERC tube shields for sale?
These were described in a recent Electric Radio article. I am
in need of several of these, in various sizes.

Dennis Gibbs
dgibbs@rational.com
(703) 761-4496

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 95 09:41:21 PDT
From: Grant Youngman <gyoungma@gtetel.com>
Subject: RE: Wanted: IERC Black Tube shields
Message-ID: <Chameleon.4.00.4.950629094654.grant@nq5t.gtetel.com>

>Greetings everyone,

>

>Does anyone have any of the Black IERC tube shields for sale?

>These were described in a recent Electric Radio article. I am
>in need of several of these, in various sizes.

>

>Dennis Gibbs

>dgibbs@rational.com

>(703) 761-4496

>

>

>

I have a few ... I'll look tonight and see what's in the box.

Could be disappointing, though. I ordered a bunch from Fair Radio a while back, but not all were usable. The shields for the 12AU7 size 9 pin tubes, for example are designed for a very specific type of socket and don't work well on a socket designed for the bayonet style shield mounting or the clip-in type found in the HQ-170/180.

In fact, all of them were kind of "make do" for the standard bayonet socket arrangement -- not really designed for that.

I know that IERC is still in business, but haven't called them direct to see what they manufacture now or where it is available.

Grant/NQ5T

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995

Date: Thu, 29 Jun 1995 10:06:00 -0500 (CDT)

From: Kevin J Pease <kevin@mm1001.theporch.com>

Subject: Re: who's more sensitive

Message-ID: <Pine.LNX.3.91.950629100054.5724A-1000000@mm1001.theporch.com>

Kevin J Pease

WB0JZG Mt Juliet, TN.

mm1001.theporch.com

On Wed, 28 Jun 1995, Barry L. Ornitz wrote:

> The quickest test to see if your setup is background limited is to
> disconnect the antenna from the receiver. If the noise level coming out
> of the speaker drops, the receiver has all the sensitivity needed for your
> location and a lower noise figure receiver will not help.

One caveat to this method. One should replace the antenna with a 50 OHM resistor. Some receiver frontends if not properly will regenerate slightly and increase gain and noise with no antenna connected. Also the

50 OHM load insures the same grid/input device input impedance which can affect stage generated noise. Other amplifiers actually have higher gain and noise with the resistor connected because of the impedance match.

I don't know how strong the thermal noise is on a 50 ohm resistor at 28 mhz but it might also have na effect on this test.

Previos statements about useable sensitivity are right on the mark. The only place where a low noise figure on HF is useable is in the case of loop or other lossy antennas

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 10:09:23 -0500 (CDT)
From: Kevin J Pease <kevin@mm1001.theporch.com>
Subject: Re: who's more sensitive
Message-ID: <Pine.LNX.3.91.950629100653.5724B-100000@mm1001.theporch.com>

Tony I have an IC-740 and it is by far more sensitive than any BA rig I have owned including the hamarlund HQ-170. Maybee your IC-725 is sick or something. The fact is that the tube gear is more than sensitive enough for any HF use. R-390A's will be a viable receiver untill the point where tubes are completely gone from this earth (atleast the tubes used in that receiver).

Kevin J Pease
WB0JZG Mt Juliet, TN.
mm1001.theporch.com

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 1995 13:09:30 -0400 (EDT)
From: Steve Ellington <n41q@iglou.com>
Subject: Re: who's more sensitive
Message-ID: <Pine.SOL.3.91.950629130657.19803B-100000@iglou.iglou.com>

On Thu, 29 Jun 1995, Kevin J Pease wrote:

>
> Tony I have an IC-740 and it is by far more sensitive than any BA rig I
> have owned including the hamarlund HQ-170. Maybee your IC-725 is sick or
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> for any HF use. R-390A's will be a viable receiver untill the point where
> tubes are completely gone from this earth (atleast the tubes used in that
> receiver).
>
> Kevin J Pease

> WBOJZG Mt Juliet, TN.
> mm1001.theporch.com
>
> TUBES GONE FROM THE EARTH?
That wont happen until "The elements melt with a fervent heat".
See 2Peter 3:12
Elements will include grids, plates, cathodes etc.
Of course, it won't matter by then because all the rice boxes finally get
what's comming to them. 73

Steve
n4lq@iglou.com

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 95 15:09:46 -0700
From: "Kevin E. Schmidt" <w9cf@ptolemy.la.asu.edu>
Subject: Re: who's more sensitive
Message-ID: <9506292209.AA00731@ptolemy.la.asu.edu>

Richard Stalls wrote:

>I'm not claiming any expertise either, but I put an HQ-180 I had a while
>back on an A-B coax switch with my Icom IC-725. Across the board, the
>Hammarlund blew the Icom's socks off. I was hearing readable signals on
>the HQ-180 that I wasn't hearing at all on the Icom.

I like boatanchors, and I know nothing about the IC-725 so maybe it is
really bad compared to an HQ-180. But if the IC-725 is an upconverting
design with good filters, it should have many fewer spurious responses
than the HQ-180 with several down conversions. What hints at this is
not hearing the signals at all on the Icom. Unless the Icom is
generating a lot of noise that masks signals it seems more likely to me
that those signals on the HQ-180 are spurious responses.

Kevin

=-----
Kevin Schmidt w9cf@ptolemy.la.asu.edu
Department of Physics and Astronomy
Arizona State University, Tempe, AZ 85287-1504
(602) 965-8240
(602) 965-7954 (FAX)

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thu, 29 Jun 95 18:51:14 PDT
From: Grant Youngman <gyoungma@gtetel.com>

Subject: Re: who's more sensitive

Message-ID: <Chameleon.4.01.2.950629190514.gyoungma@gyoungma.gtetel.com>

>

>Richard Stalls wrote:

>

>>I'm not claiming any expertise either, but I put an HQ-180 I had a while
>>back on an A-B coax switch with my Icom IC-725. Across the board, the
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>>the HQ-180 that I wasn't hearing at all on the Icom.

>

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>really bad compared to an HQ-180. But if the IC-725 is an upconverting
>design with good filters, it should have many fewer spurious responses
>than the HQ-180 with several down conversions. What hints at this is
>not hearing the signals at all on the Icom. Unless the Icom is
>generating a lot of noise that masks signals it seems more likely to me
>that those signals on the HQ-180 are spurious responses.

>

Well.... maybe. When I walk into the shack, the first and often only
piece of gear that gets turned on is an HQ-180 or HQ-170. I have used most
of the high end rice boxes that have been around for the past few years.
NONE of them listen as well overall as the boatanchor. And since, as
has been pointed out, on HF the value of extreme sensitivity is limited by
atmospheric noise, a discussion of .0000025 uV vs 1.00000 uV is pretty
much academic.

One significant difference is how well the boatanchor (well, at least the
170/180 radios) perform in the presence of a lot of atmospheric noise.
Signals buried in the stuff on the solid state Woozle-Doozle 5050 stand out
much more clearly on the BA. I don't know enough to know why, but it seems
to be a consistent case in my experience. More warmth, a "fuller"
recovered audio (probably because of the broader, less steep sided IF)
and just infinitely more "listenable". Perhaps something to do with the
softer overload/clipping/transient characteristics of tubes vs solid state.

And of course, I'm forced to fondle the vernier tuning from time to time..
three cheers for a little drift to give me something to do :-)

Grant/NQ5T

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995

Date: Thu, 29 Jun 95 18:51:14 PDT

From: Grant Youngman <gyoungma@gtetel.com>

Subject: Re: who's more sensitive

Message-ID: <Chameleon.4.01.2.950629190514.gyoungma@gyoungma.gtetel.com>

>
>Richard Stalls wrote:
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>>Hammarlund blew the Icom's socks off. I was hearing readable signals on
>>the HQ-180 that I wasn't hearing at all on the Icom.
>
>I like boatanchors, and I know nothing about the IC-725 so maybe it is
>really bad compared to an HQ-180. But if the IC-725 is an upconverting
>design with good filters, it should have many fewer spurious responses
>than the HQ-180 with several down conversions. What hints at this is
>not hearing the signals at all on the Icom. Unless the Icom is
>generating a lot of noise that masks signals it seems more likely to me
>that those signals on the HQ-180 are spurious responses.
>

Well.... maybe. When I walk into the shack, the first and often only piece of gear that gets turned on is an HQ-180 or HQ-170. I have used most of the high end rice boxes that have been around for the past few years. NONE of them listen as well overall as the boatanchor. And since, as has been pointed out, on HF the value of extreme sensitivity is limited by atmospheric noise, a discussion of .0000025 uV vs 1.00000 uV is pretty much academic.

One significant difference is how well the boatanchor (well, at least the 170/180 radios) perform in the presence of a lot of atmospheric noise. Signals buried in the stuff on the solid state Woozle-Doozle 5050 stand out much more clearly on the BA. I don't know enough to know why, but it seems to be a consistent case in my experience. More warmth, a "fuller" recovered audio (probably because of the broader, less steep sided IF) and just infinitely more "listenable". Perhaps something to do with the softer overload/clipping/transient characteristics of tubes vs solid state.

And of course, I'm forced to fondle the vernier tuning from time to time.. three cheers for a little drift to give me something to do :-)

Grant/NQ5T

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Thu, 29 Jun 1995 23:10:34 -0400 (EDT)
From: Steve Ellington <n41q@iglou.com>
Subject: Re: who's more sensitive
Message-ID: <Pine.SOL.3.91.950629230857.10510C-1000000@iglou.iglou.com>

On Thu, 29 Jun 1995, Grant Youngman wrote:

>
> >
> >Richard Stalls wrote:
> >
> >>I'm not claiming any expertise either, but I put an HQ-180 I had a while
> >>back on an A-B coax switch with my Icom IC-725. Across the board, the
> >>Hammarlund blew the Icom's socks off. I was hearing readable signals on
> >>the HQ-180 that I wasn't hearing at all on the Icom.
> >
> >I like boatanchors, and I know nothing about the IC-725 so maybe it is
> >really bad compared to an HQ-180. But if the IC-725 is an upconverting
> >design with good filters, it should have many fewer spurious responses
> >than the HQ-180 with several down conversions. What hints at this is
> >not hearing the signals at all on the Icom. Unless the Icom is
> >generating a lot of noise that masks signals it seems more likely to me
> >that those signals on the HQ-180 are spurious responses.
> >
>
> Well.... maybe. When I walk into the shack, the first and often only
> piece of gear that gets turned on is an HQ-180 or HQ-170. I have used most
> of the high end rice boxes that have been around for the past few years.
> NONE of them listen as well overall as the boatanchor. And since, as
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>
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> to be a consistent case in my experience. More warmth, a "fuller"
> recovered audio (probably because of the broader, less steep sided IF)
> and just infinitely more "listenable". Perhaps something to do with the
> softer overload/clipping/transient characteristics of tubes vs solid state.
>
> And of course, I'm forced to fondle the vernier tuning from time to time..
> three cheers for a little drift to give me something to do :-)
>
> Grant/NQ5T
>
>I think you hit the nail on the head about atmospheric noise. I don't
pretend to understand it either but when I compare my ts940s with my old
omni c the omni can did stuff out of qrn a lot better. Seems like the 940
tends to amplify static and bury signals under it. 73

Steve
n4lq@iglou.com

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Fri, 30 Jun 95 09:11 EDT
From: clarke@acme.ist.ucf.edu (Thomas Clarke)
Subject: Re: who's more sensitive
Message-ID: <m0sRfr5-00003kC@next3.acme.ist.ucf.edu>

>Grant Youngman wrote:

>One significant difference is how well the boatanchor (well, at least the
>170/180 radios) perform in the presence of a lot of atmospheric noise.

>Signals buried in the stuff on the solid state Woozle-Doozle 5050 stand out
>much more clearly on the BA.

There is a big discussion in the '95 Handbook about phase noise.
The Phase Lock Loop Woozle-Doozle oscillators act as if they are a broad
band signal source with a peak at the oscillator frequency, not a pure sine wave.
As a result noise far away from the signal of interest can be mixed with
the phase noise of the oscillator to get through the filter.

I think theory says that free-running oscillators have phase noise as well,
but my intuition says that a BA type oscillator should be less noisy since
it is a lot simpler. Besides I don't think theory distinguishes between
millisecond scale oscillator irregularities and minute to minute oscillator
irregularities. The later you can take out with a tweak of the tuning knob,
but you are stuck with the former.

Tom Clarke
KE4VFH

From boatanchors@theporch.com Fri Jun 30 18:33:43 1995
Date: Fri, 30 Jun 1995 08:45:19 -0400 (EDT)
From: "Stanley L Flegler" <flegler@pilot.msu.edu>
Subject: WTB 0-28 vdc supply
Message-ID: <9506301245.AA13969@pilot02.cl.msu.edu>

I looking for a small, cheap, 0 to 28 vdc power supply, 1 amp is sufficient. I
recall Heathkit made some like this at one time. Does anyone have one they
don't need anymore. Stan K8RPA, flegler@pilot.msu.edu

From boatanchors@theporch.com Fri Jun 30 10:42:22 1995
Date: Thursday, 29 June 1995 15:11 PT
From: joe.selkregg@amail.amdahl.com
Subject: Yet another BC1031C owner
Message-ID: <m0sRRvR-00004PC@juts.ccc.amdahl.com>

Well...

I am also the proud owner of one of these panadaptors, an Army Signal Corp version. I recently drug it out to get it tuned up and working. I obtained a twist lock connector at a place called Haltek in Redwood City in northern CA. I have seen these connectors on other non-mil. equipment so I think that they are available. So far, I have tried the unit with an SP600JX-1 and had results similar to Tom's.

On my adapter, I noticed that the slug is missing from Z-101 that is used to initially set the center frequency with. Then I noticed that it has been deleted on the silkscreened internal schematic. The paper copy I have includes it.

I am planning on trying the unit with an R-220, one of several Scott SLRs that I have, an R-390A or maybe an R-388 if I can tweak the unit up to the 388's 500kc I.F..

Several of these receivers have a cathode follower coming off of the last I.F. to provide a buffered I.F. output. Has anyone tried connecting this to the mixer output instead to provide an IF output that is suitable for a panadaptor? I realize that this is a "mod" but it is easily reversible. I would also like to know what receiver this was originally used with.

Also, I learned that there is a BC-1032-c version of this. It is driven with a 5.2 MHz I.F. and has a + or - 1MHz bandwidth. I have a Hallicrafters mil. S-27 with a factory I.F. output (from the mixer tube) with a label next to the output that says "to BC-1032"

Joe Selkregg